

# Raccoon Creek Watershed - East Branch Phase I

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Project Status: Complete: 12/31/2007 ODNR Project Number: HC-ST-13

## Pre-construction



East Branch EB200 Nov. 2003  
Photo by Brett Laverty

## Post-construction



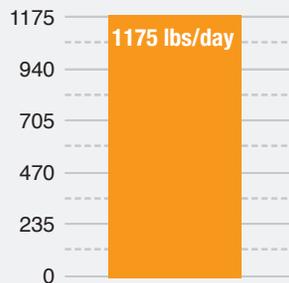
Site #3 steel slag leach bed full of water 2-7-08  
Photo by Amy Mackey

East Branch Phase I Reclamation Project is located in Section 14 and 15 of Starr Township in Hocking County and lies within the 12 digit HUC unit #050901010201. There are eight separate sites spread out over three headwater drainages of the East Branch of Raccoon Creek, project footprint of the eight sites is approximately 27 acres. East Branch is the largest contributor of acid mine drainage to the headwaters of Raccoon Creek. Large areas of strip mined land, some has been reclaimed under the 1972 Act, coupled with few deep mine discharges resulting in seeps, contribute to the AMD which affects East Branch and its tributaries. The AMD is diffuse throughout the area due to the extensiveness of surface mining and has required a basin wide approach that focuses on reducing acid and metal load to Raccoon Creek. The design was completed by ATC Associates Inc. for \$65,438. The treatment approach for this site was to install eight steel slag leach beds (16,251 sq. ft), 1,100 linear feet of open limestone channels, reclaim 4.8 acres of gob piles, and install two passive settling ponds with limestone berms (42,000 square feet)(Figure 2). The goal of the design was to reduce acid at the mouth of the East Branch (EB010). Construction was complete December 31, 2008 by Tucson Inc. for a cost of \$918,401. The funding source for the project design was Ohio EPA 319 grant and for construction the sources were ODNR-DMRM and Ohio EPA 319. Pre-treatment acid and metal loadings at site EB210 are shown in figure 1 and EB160 in figure 2.

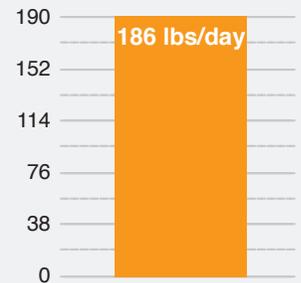
Note: EB210 site does not take into account 1 SLB site #8 (EB160)

### SITE: EB210

#### Pre treatment acid load



#### Pre treatment metal load

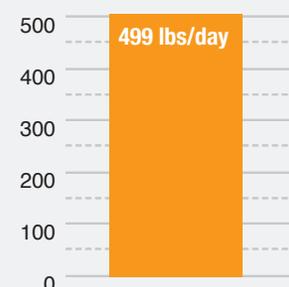


Data derived using the Mean Annual Load Method (Stoertz, 2004).

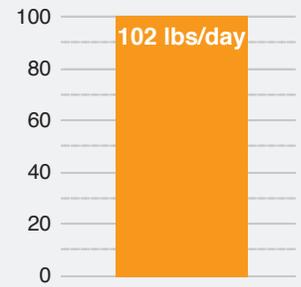
Figure 1. Estimated acid and metal loadings prior to treatment

### SITE: EB160

#### Pre treatment acid load



#### Pre treatment metal load



Data derived using the Mean Annual Load Method (Stoertz, 2004).

Figure 2. Estimated acid and metal loadings prior to treatment 2015

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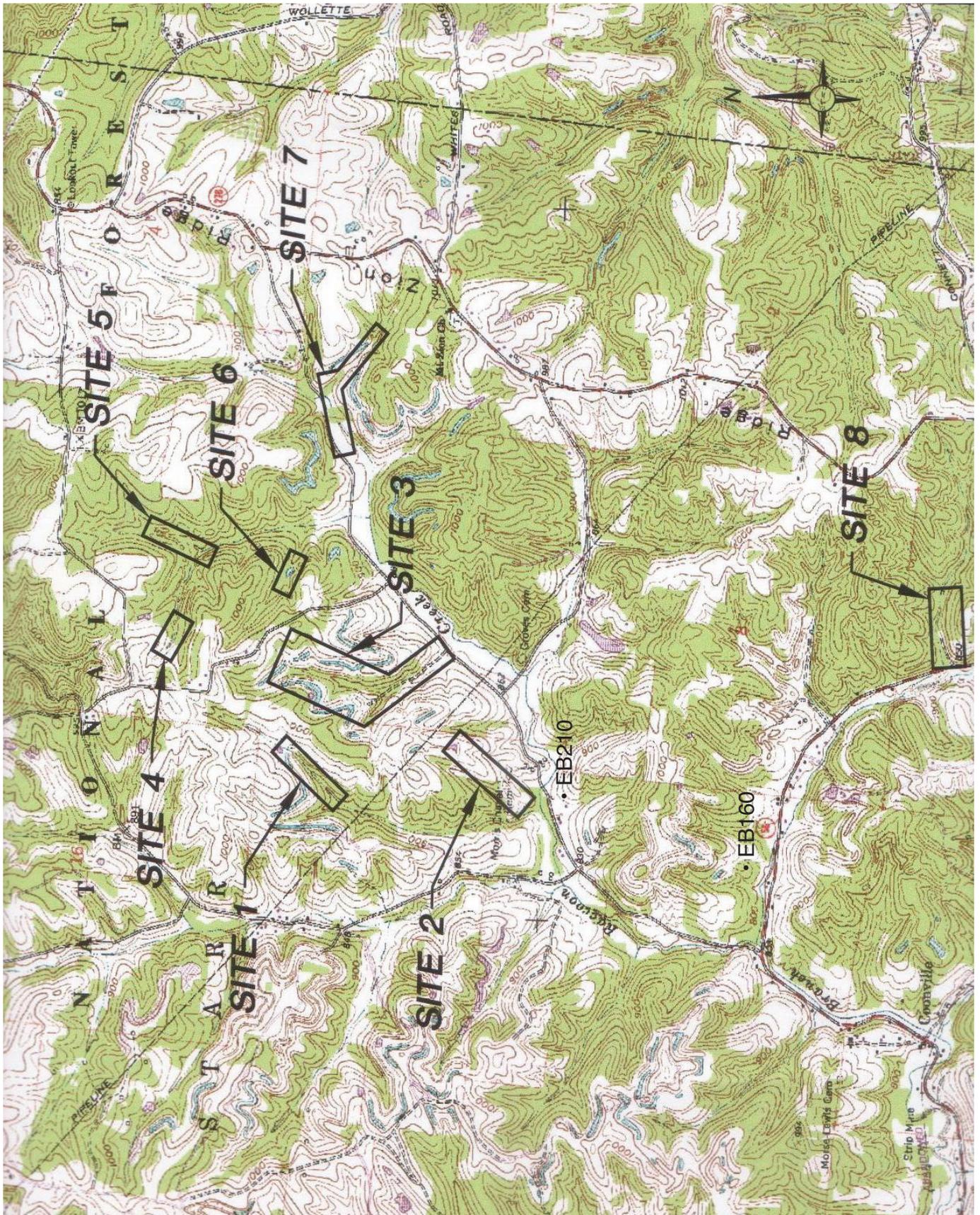


Figure 2. East Branch Phase I treatment to site locations